

Air conditioner for vehicle interior with drive producing waste heat - contains refrigerant and separate hot liquid circulation systems which can be coupled with unit across at least one heat exchanger.

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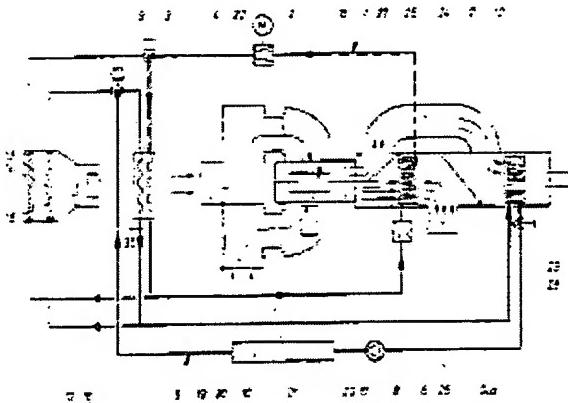
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Abstract of DE4318255

The air conditioner has a hot liquid circulation system (5) contains one second heat exchanger (10) at least fed with waste heat. The refrigerant circulation system (1) includes an evaporator (7), receiving air flowing to the interior space, a refrigerant compressor (2) and an expansion valve (6). The hot liquid circulation system contains a heating heat exchanger (12), permeated by air (8) flowing to the inside of the vehicle after passing the evaporator and a first three-way valve (9). The three-way valve is used selectively with a cooler(14) integrated in the hot liquid circulation system, for the heating operation of a first heat exchanger (4) or for a cooling operation. The refrigerant circulating system contains a second three-way valve (3). This is used selectively for a heating operation of the first heat exchanger, or for a cooling operation with at least one outside air operated condenser (13). This condenser can be integrated in the refrigerant circulating system. ADVANTAGE - Low power consumption, dehumidifies air to be supplied to vehicle inside, and substantially independently air is maintained at correct temp..



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